

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2005/001172A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C12Q1/48 G01N33/574

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C12Q G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, EMBASE, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/090578 A (CAMBRIDGE UNIVERSITY TECHNICAL SERVICES LIMITED; CHROMA THERAPEUTICS L) 14 November 2002 (2002-11-14) the whole document pages 34, 51, 52 claims 2, 3	1-16
A	REA STEPHEN ET AL: "Regulation of chromatin structure by site-specific histone H3 methyltransferases" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 406, no. 6796, August 2000 (2000-08), pages 593-599, XP002154907 ISSN: 0028-0836 the whole document page 595, column 2, paragraph 1	1-16
	-/-	

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
15 July 2005	29/07/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Authorized officer  Jenkins, G

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	HAMAMOTO RYUJI ET AL: "SMYD3 encodes a histone methyltransferase involved in the proliferation of cancer cells" NATURE CELL BIOLOGY, vol. 6, no. 8, August 2004 (2004-08), pages 731-740, XP002336164 ISSN: 1465-7392 the whole document -----	1-16
A	WO 03/027143 A (JAPAN AS REPRESENTED BY THE PRESIDENT OF THE UNIVERSITY OF TOKYO; ONCO) 3 April 2003 (2003-04-03) the whole document -----	1-16

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International application No.  
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### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: 17-20  
because they relate to subject matter not required to be searched by this Authority, namely:  
**Claims 18-20: Rule 39.1(iv) PCT – Method for treatment of the human or animal body by therapy**
2.  Claims Nos.: 17-20  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
**see FURTHER INFORMATION sheet PCT/ISA/210**
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Claims Nos.: 17-20

Claims 18-20: Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

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Continuation of Box II.2

Claims Nos.: 17-20

The subject-matter of claims 17-20 is rendered vague and unclear as it tries to define agents in terms of a result to be achieved, i.e. that they decrease ZNFN3A1-mediated methylation or interactions between ZNFN3A1 and HSP90A or S-adenosyl-L-methionine (Article 6 PCT). Furthermore, none of the compounds alluded to in said claims are disclosed in the description. Thus, the subject-matter of said claims is unsupported in the sense of Article 6 PCT and not disclosed in the application in the sense of Article 5 PCT. The lack of clarity, support and disclosure is in this case so grave that no meaningful search can be performed for these claims.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/JP2005/001172

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 02090578	A 14-11-2002	EP	1419267 A2	19-05-2004
		WO	02090578 A2	14-11-2002
		US	2004241756 A1	02-12-2004
WO 03027143	A 03-04-2003	CN	1592793 A	09-03-2005
		EP	1434879 A2	07-07-2004
		EP	1430152 A2	23-06-2004
		WO	03027322 A2	03-04-2003
		WO	03027143 A2	03-04-2003
		JP	2005511023 T	28-04-2005
		JP	2005503176 T	03-02-2005
		US	2005019768 A1	27-01-2005
		US	2004235018 A1	25-11-2004
		CA	2399569 A1	25-03-2003